

WEST**Search Results - Record(s) 1 through 2 of 2 returned.**☐ 1. Document ID: DE 3135709 A1

L3: Entry 1 of 2

File: EPAB

Apr 21, 1983

PUB-NO: DE003135709A1

DOCUMENT-IDENTIFIER: DE 3135709 A1

TITLE: Insert for columns used for heat exchange and mass transfer

PUBN-DATE: April 21, 1983

INVENTOR-INFORMATION:

NAME

COUNTRY

STRZELSKI, JOZEF

PL

JUCHA, STEFAN

PL

WIEKLUK, MIKOLAJ

PL

ASSIGNEE-INFORMATION:

NAME

COUNTRY

PRZED PROJEKTOWANIA I DOSTAW K

PL

APPL-NO: DE03135709

APPL-DATE: September 9, 1981

PRIORITY-DATA: DE03135709A (September 9, 1981)


US-CL-CURRENT: 261/95

INT-CL (IPC): B01D 3/14

EUR-CL (EPC): B01D003/16; F28F025/08, B01J019/32

ABSTRACT:

CHG DATE=19990617 STATUS=O> In order in columns, in which heat exchange and mass transfer processes proceed, to achieve low resistances to flow, a uniform and almost complete wettability of the surfaces and homogeneous exchange conditions in the entire volume, inserts (1) are used which are composed of rectangular plates (3) which are arranged vertically in the column (2) and are detachably or permanently joined along the longer edges. Three, four or six of these plates (3) can be joined together in each case, as a result of which flow channels (6) having a triangular, square or hexagonal profile respectively, are formed. In each plate (3), cutouts (7, 8) having a regular geometrical profile are made, which are arranged in pairs along the plate (3) and are bent towards the two sides of the plate, the bending lines of these cutouts being inclined at an acute angle to the plate edge. The cutouts (7, 8) form barriers in the flow channel (6) formed by the plates (3), which barriers are

arranged at the same height or at different heights along the canal length. 

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☐ 2. Document ID: DE 3135709 A

L3: Entry 2 of 2

File: DWPI

Apr 21, 1983

DERWENT-ACC-NO: 1983-39389K
DERWENT-WEEK: 198317
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TITLE: Processing column packing with rectangular plates - has cut-out lugs bent to opposite sides of plate

INVENTOR: JUCHA, S; STRZELSKI, J ; WIEKLUK, M

PATENT-ASSIGNEE:

ASSIGNEE

PRZEDSIĘBIORSTWO PR

CODE

PRZEN

PRIORITY-DATA: 1981DE-3135709 (September 9, 1981)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 3135709 A	April 21, 1983		018	

INT-CL (IPC): B01D 3/14

ABSTRACTED-PUB-NO: DE 3135709A

BASIC-ABSTRACT:

Packing insert for a heat exchange or mass transfer column is to produce turbulence in a medium flowing parallel to the vertical axis of the column. The element comprises smooth, ribbed or perforated, rectangular plates, touching one another along their longer edges and joined by studs at the corners.

A system of ducts is distributed over the section in a regular geometrical pattern. Each plate has a number of pairs of cut-outs, where the material is bent to opposite sides of the plate. Pref., the bending lines of these cut-outs are mutually parallel, and are at 45 deg. or other acute angle to the edge of the plate.

Used in various types of column, e.g. for absorption, extraction, distillation, droplet separation, gas purification etc. and for heat exchange. The arrangement provides a large effective area per unit of volume and offers low flow resistance and achieves uniform distribution of the liquid.

TITLE-TERMS: PROCESS COLUMN PACK RECTANGLE PLATE CUT-OUT LUG BEND OPPOSED SIDE PLATE

DERWENT-CLASS: J01

CPI-CODES: J01-A02A; J01-C01; J01-E03; J01-G02; J08-B;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1983-038439

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